

## LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A substrate processing apparatus, comprising:
  - a first processing chamber capable of being isolated from an external atmosphere, said first processing chamber including a liquid chemical processing part for performing liquid chemical process on substrates by a structure that enables dipping substrates into a liquid chemical stored in a plurality of liquid chemical baths, and the atmosphere within said first processing chamber being continuously replaced by an inert gas;
  - a second processing chamber capable of being isolated from an external atmosphere as well as from the atmosphere in said first processing chamber, said second processing chamber including a pure water processing part for performing pure water process on substrates by dipping substrates into pure water stored in rinse baths, and a dry processing part for performing dry process on substrates drawn up from said rinse baths;
  - an inert gas supply nozzle included inside said second processing chamber, said inert gas supply nozzle connected to an inert gas supply source through pipe elements having control valve elements;
  - an organic solvent supply nozzle included inside said second processing chamber, said organic solvent supply nozzle connected to an organic solvent supply source through pipe elements having control valve elements;
  - a first opening provided to an upper portion of said first processing chamber, said first opening allowing substrates to pass therethrough;
  - a first shutter member for exposing and blocking said first opening;
  - a second opening provided to an upper portion of said second processing chamber, said second opening allowing substrates to pass therethrough;
  - a second shutter member for exposing and blocking said second opening;
  - a third opening provided between said first and second processing chambers, said third opening allowing substrates to pass therethrough;
  - a third shutter member for exposing and blocking said third opening, said third shutter member being effective in a closed state thereof to isolate the atmosphere within said first processing chamber from the atmosphere within said second processing chamber; a first

transport mechanism for transporting substrates, said first transport mechanism being movable between a position above said first processing chamber and a position above said second processing chamber;

a second transport mechanism for carrying substrates between said first and second processing chambers through said third opening;

a third transport mechanism for receiving substrates prior to the liquid chemical process from said first transport mechanism and carrying substrates from said position above first processing chamber to said liquid chemical processing part through said first opening, said third transport mechanism transferring substrates being liquid chemical processed to said second transport mechanisms; ~~and~~

a fourth transport mechanism for receiving substrates from said second transport mechanism, sequentially carrying substrates to said pure water processing part and said dry processing part and carrying substrates being dry processed to said position above said second processing chamber through said second opening, said fourth transport mechanism also transferring substrates to said first transport mechanisms; and

said first processing chamber includes a liquid chemical processing chamber containing said liquid chemical processing part and a transport chamber allowing transportation of substrates by said second transport mechanism,

wherein atmospheres in said liquid chemical processing chamber and said transport chamber are isolated from each other by an open/close mechanism.

## **2.-3. (Cancelled)**

**4. (Currently Amended)** The substrate processing apparatus according to claim [[3]] 1, wherein said liquid chemical processing chamber is divided into a plurality of liquid chemical process units including respective ones of said plurality of liquid chemical baths, and

wherein atmospheres in said plurality of liquid chemical process units can be isolated from each other.

**5. (Original)** The substrate processing apparatus according to claim 4, further comprising:

an inert gas supply member for supplying an inert gas to said first and second processing chambers; and

an exhaust member through which air is exhausted from said first and second processing chambers.

**6. (Currently Amended)** A substrate processing apparatus, comprising:  
a first processing chamber capable of being isolated from an external atmosphere, said first processing chamber including a liquid chemical processing part for performing liquid chemical process on substrates by a structure that enables dipping substrates into a liquid chemical stored in a plurality of liquid chemical baths, and the atmosphere within said first processing chamber being continuously replaced by an inert gas;

a second processing chamber capable of being isolated from an external atmosphere as well as from the atmosphere in said first processing chamber, said second processing chamber including a pure water processing part for performing pure water process on substrates by dipping substrates into pure water stored in rinse baths, and a dry processing part for performing dry process on substrates drawn up from said rinse baths;;

an inert gas supply nozzle included inside said second processing chamber, said inert gas supply nozzle connected to an inert gas supply source through pipe elements having control valve elements;

an organic solvent supply nozzle included inside said second processing chamber, said organic solvent supply nozzle connected to an organic solvent supply source through pipe elements having control valve elements;

a first opening provided to an upper portion of said first processing chamber, said first opening allowing substrates to pass therethrough;

a first shutter member for exposing and blocking said first opening;

a second opening provided to an upper portion of said second processing chamber, said second opening allowing substrates to pass therethrough;

a second shutter member for exposing and blocking said second opening;

a third opening provided between said first and second processing chambers, said third opening allowing substrates to pass therethrough;

a third shutter member for exposing and blocking said third opening, said third shutter member being effective in a closed state thereof to isolate the atmosphere within said first processing chamber from the atmosphere within said second processing chamber;

a first transport mechanism for transporting substrates, said first transport mechanism being movable between a position above said first processing chamber and a position above said second processing chamber; ~~and~~

a second transport mechanism for receiving substrates prior to the liquid chemical process from said first transport mechanism, carrying substrates ~~between~~ from said position above said first processing chamber, to said liquid chemical processing part, through said first opening, carrying substrates being liquid chemical processed to said second processing chamber through said third opening, sequentially carrying substrates to said pure water processing part and said dry processing part and carrying substrates to said pure water processing part and said dry processing part and carrying substrates being dry processed to said position above said second processing chamber through said second opening, said second transport mechanism also transferring substrates to said first transport mechanism; and

said first processing chamber includes a liquid chemical processing chamber containing said liquid chemical processing part; and a transport chamber allowing transportation of substrates by said second transport mechanism, and

wherein atmospheres in said liquid chemical processing chamber and said transport chamber are isolated from each other by an open/close mechanism.

#### 7. - 8. (Cancelled)

9. (Currently Amended) The substrate processing apparatus according to claim [[8]] 6,

wherein said liquid chemical processing chamber is divided into a plurality of liquid chemical process units including respective ones of said plurality of liquid chemical baths, and

wherein atmospheres in said plurality of liquid chemical process units can be isolated from each other.

**10. (Original)** The substrate processing apparatus according to claim 9, further comprising:

an inert gas supply member for supplying an inert gas to said first and second processing chambers; and

an exhaust member through which air is exhausted from said first and second processing chambers.

**11. (Currently Amended)** A substrate processing apparatus, comprising:  
a first processing chamber capable of being isolated from an external atmosphere, said first processing chamber including a liquid chemical processing part for performing liquid chemical process on substrates by a structure that enables dipping substrates into a liquid chemical stored in a plurality of liquid chemical baths, and the atmosphere within said first processing chamber being continuously replaced by an inert gas;

a second processing chamber capable of being isolated from an external atmosphere as well as from the atmosphere in said first processing chamber, said second processing chamber including a pure water processing part for performing pure water process on substrates by dipping substrates into pure water stored in rinse baths, and a dry processing part for performing dry process on substrates drawn up from said rinse baths;;

an inert gas supply nozzle included inside said second processing chamber, said inert gas supply nozzle connected to an inert gas supply source through pipe elements having control valve elements;

an organic solvent supply nozzle included inside said second processing chamber, said organic solvent supply nozzle connected to an organic solvent supply source through pipe elements having control valve elements;

a first opening provided to an upper portion of said first processing chamber, said first opening allowing substrates to pass therethrough;

a first shutter member for exposing and blocking said first opening;

a second opening provided to an upper portion of said second processing chamber, said second opening allowing substrates to pass therethrough;

a second shutter member for exposing and blocking said second opening;

a third opening provided between said first and second processing chambers, said third opening allowing substrates to pass therethrough;

a third shutter member for exposing and blocking said third opening, said third shutter member being effective in a closed state thereof to isolate the atmosphere within said first processing chamber from the atmosphere within said second processing chamber;

a first transport mechanism for transporting substrates, said first transport mechanism being movable between said first processing chamber, a position above said first processing chamber, a position above said second processing chamber, and said second processing chamber while passing through said first and second openings; [[and]]

a second transport mechanism for receiving substrates prior to the liquid chemical process from said first transport mechanism in said first processing chamber, carrying substrates to said liquid chemical processing part, carrying substrates being liquid chemical processed to said second processing chamber through said third opening, sequentially carrying substrates to said pure water processing part and said dry processing part, said second transport mechanism also transferring substrates being dry processed to said first transport mechanism in said second processing chamber; and said first processing chamber includes a liquid chemical processing chamber containing said liquid chemical processing part; and a transport chamber allowing transportation of substrates by said second transport mechanism, and

wherein atmospheres in said liquid chemical processing chamber and said transport chamber are isolated from each other by an open/close mechanism.

**12. - 13. (Cancelled)**

**14. (Currently Amended)** The substrate processing apparatus according to claim [[13]] 11,

wherein said liquid chemical processing chamber is divided into a plurality of liquid chemical process units including respective ones of said plurality of liquid chemical baths, and

wherein atmospheres in said plurality of liquid chemical process units can be isolated from each other.

**15. (Original)** The substrate processing apparatus according to claim 14, further comprising:

an inert gas supply member for supplying an inert gas to said first and second processing chambers; and

an exhaust member through which air is exhausted from said first and second processing chambers.

**16.-20. (Cancelled)**

**21. (Currently Amended)** A substrate processing apparatus, comprising:

a first processing chamber capable of being isolated from an external atmosphere, said first processing chamber including a liquid chemical processing part for performing liquid chemical process on substrates by a structure that enables dipping substrates into a liquid chemical stored in a plurality of liquid chemical baths, and the atmosphere within said first processing chamber being continuously replaced by an inert gas;

a second processing chamber capable of being isolated from an external atmosphere as well as from the atmosphere in said first processing chamber, said second processing chamber including a pure water processing part for performing pure water process on substrates by dipping substrates into pure water stored in rinse baths, and a dry processing part for performing dry process on substrates drawn up from said rinse baths;

an inert gas supply nozzle included inside said second processing chamber, said inert gas supply nozzle connected to an inert gas supply source through pipe elements having control valve elements;

an organic solvent supply nozzle included inside said second processing chamber, said organic solvent supply nozzle connected to an organic solvent supply source through pipe elements having control valve elements;

a first opening provided to an upper portion of said first processing chamber, said first opening allowing substrates to pass therethrough;

a first shutter member for exposing and blocking said first opening;

a second opening provided to an upper portion of said second processing chamber, said second opening allowing substrates to pass therethrough;

a second shutter member for exposing and blocking said second opening;  
a third opening provided between said first and second processing chambers, said third opening allowing substrates to pass therethrough;

a third shutter member for exposing and blocking said third opening, said third shutter member being effective in a closed state thereof to isolate the atmosphere within said first processing chamber from the atmosphere within said second processing chamber;

a first transport mechanism for transporting substrates, said first transport mechanism being movable between said first processing chamber, a position above said first processing chamber, a position above said second processing chamber, and said second processing chamber while passing through said first and second openings;

a second transport mechanism for carrying substrates between said first and second processing chambers through said third opening;

a third transport mechanism for ~~carrying~~ receiving substrates prior to the liquid chemical process from said first transport mechanism in said first processing chamber and carrying substrates to said liquid chemical processing part, said third transport mechanism also transferring substrates being liquid chemical processed to said second transport mechanisms; and

a fourth transport mechanism for receiving substrates from said second transport mechanism in said second processing chamber and sequentially carrying substrates to said pure water processing part and said dry processing part, said fourth transport mechanism also transferring substrates being dry processed to said first transport mechanisms; and said first processing chamber includes a liquid chemical processing chamber containing said liquid chemical processing part; and a transport chamber allowing transportation of substrates by said second transport mechanism, and

wherein atmospheres in said liquid chemical processing chamber and said transport chamber are isolated from each other by an open/close mechanism.

**22. - 23. (Cancelled)**

**24. (Currently Amended)**      The substrate processing apparatus according to claim ~~[[23]]~~ 21,



wherein said liquid chemical processing chamber is divided into a plurality of liquid chemical process units including respective ones of said plurality of liquid chemical baths, and wherein atmospheres in said plurality of liquid chemical process units can be isolated from each other.

**25. (Original)** The substrate processing apparatus according to claim 24, further comprising:

an inert gas supply member for supplying an inert gas to said first and second processing chambers; and

an exhaust member through which air is exhausted from said first and second processing chambers.

**26. - 30. (Cancelled)**